

REMARKS***Summary of the Amendment***

Upon entry of the above amendment, the specification and claim 1 will have been amended and claims 19 – 25 will have been canceled without prejudice or disclaimer. Moreover, Applicant expressly reserves the right to refile the subject matter of these canceled claims in one or more continuation applications. Accordingly, claims 1 – 18 currently remain pending.

Summary of the Official Action

In the instant Office Action, the Examiner has indicated that claims 5, 6, 13, and 15 contain allowable subject matter and would be allowable if presented in independent forms that include the features of their base claims and any intervening claims. Moreover, the Examiner has objected to the specification and rejected claims 1 – 4, 7 – 12, 14, and 16 – 25 over the art of record. By the present amendment and remarks, Applicant submits that the objections and rejections have been overcome, and respectfully request reconsideration of the outstanding Office Action and allowance of the present application.

Drawings are Acceptable

Applicant notes that neither the Examiner nor the U.S. Patent and Trademark Office Draftsperson has objected to the originally submitted drawings. Accordingly, Applicant understands that the drawings are acceptable, and that no replacement drawings are necessary.

Moreover, Applicant requests confirmation of the same in the next official communication to the undersigned.

Objection to Specification is Moot

Applicant submits that, as the specification has been amended in accordance with the Examiner's suggestion to address and overcome the noted informality, the objection to the specification is moot.

Accordingly, Applicant requests that the Examiner acknowledge that the objection is moot in the next Official Action.

Traversal of Rejection Under 35 U.S.C. §102(b)

Applicant traverses the rejection of claims 1 – 4 and 16 – 25 under 35 U.S.C. § 102(b) as being anticipated by International Publication No. WO98/10569 [hereinafter "RASANEN"]. The Examiner asserts that RASANEN shows a process and apparatus for transmitting a status message to a user terminal of a satellite data transmission system, which includes all of the recited features. Applicant traverses the Examiner's assertions.

By the present amendment, claims 19 – 25 have been canceled without prejudice or disclaimer, however, Applicant has expressly reserved the right to refile the subject matter of these claims in one or more continuation applications. Accordingly, Applicant initially notes that the asserted rejections of claims 19 – 25 are moot.

Moreover, Applicant notes that independent claim 1 has been amended to even more clearly recite the features that Applicant regards as his invention. In particular, the Examiner's attention is directed to paragraphs [0007] and [0008] of the instant disclosure, which provides support for the instant amendments to the claims. In particular, Applicant's independent claim 1, as currently amended,

recites, *inter alia*, reserving at least one selected data area in the *navigation data blocks*, *splitting status messages* into status data blocks that are smaller than the navigation data blocks, *inserting the status data blocks* into consecutive reserved data areas of the navigation data blocks, and in the event of a modification of status messages, *inserting a modification message* into the consecutive reserved data areas of the navigation data blocks of the status messages. Applicant submits that RASANEN fails to disclose at least the above-noted features.

In particular, Applicant notes that RASANEN fails to provide any disclosure of a process that manipulates “navigation blocks,” and, in fact, fails to even disclose navigation blocks. Accordingly, Applicant submits that the applied art cannot anticipate the instant invention, as recited in at least independent claim 1.

Because RASANEN fails to disclose navigation data blocks, Applicants submit that this document cannot even arguably show the recited process, which includes reserving data areas, splitting status messages, inserting split status messages into the consecutive reserved data areas, and/or inserting a modification message into the consecutive reserved data areas, in response to the recited event, as recited in at least independent claim 1.

Because RASANEN fails to disclose the above-noted features, Applicant submits that this document fails to show each and every recited feature of the present invention. Therefore, Applicant submits that the Examiner has failed to provide an adequate evidentiary basis to support a rejection of anticipation under 35 U.S.C. §102(b), and that the instant rejection should be withdrawn.

Further, Applicant submits that claims 2 – 4 and 16 – 18 are allowable at least for the reason that these claims depend from allowable base claims and because these claims recite additional features that further define the present invention. In particular, Applicant submits that RASANEN fails to anticipate, *inter alia*, the satellite data transmission system transmits the navigation data blocks from navigation satellites to the user terminals, as recited in claim 2; the reserving of the at least one data area comprises reserving at least one data area in each navigation block in a regular sequence, as recited in claim 3; the at least one reserved data area comprises a plurality of reserved data areas a navigation data block, as recited in claim 4; a user terminal for a satellite data transmission system comprising a receiver unit, and a data processing unit structured for receiving and processing navigation data blocks transmitted from a satellite data transmission system to process status messages transmitted in accordance with the process of claim 1, as recited in claim 16; said user terminal is structured and arranged as a terminal of a radio communications system, as recited in claim 17; and a user terminal for a satellite data transmission system comprising a first receiver unit, a first data processing unit structured for receiving and processing navigation data blocks transmitted from a satellite data transmission system to process status messages transmitted in accordance with the process of claim 1, a second receiver unit, and a second data processing unit structured and arranged for receiving and processing user data blocks of a radio communications system, as recited in claim 18.

Accordingly, Applicant requests that the Examiner reconsider and withdraw the rejection of claims 1 – 4 and 16 – 18 under 35 U.S.C. §102(b) and indicate that these claims are allowable.

Traversal of Rejection Under 35 U.S.C. §103(a)

Applicant traverses the rejection of claims 7 – 12 and 14 under 35 U.S.C. §103(a) as being unpatentable over RASANEN in view of the article “Galileo: Satellite System Design and Technology Developments” [hereinafter “BENEDICTO”]. While acknowledging that RASANEN fails to disclose that the status messages are composed of integrity messages concerning navigation satellites of a satellite navigation system, and the modification message is provided when a modification of the integrity message occurs, the Examiner asserts that BENEDICTO shows a communication system between satellites and a user terminal with the ability to offer the integrity messages required for provision of service guarantees and for the support of safety of life applications. Applicant traverses the Examiner’s assertions.

In addition to the foregoing discussion, Applicant submits that neither RASANEN nor BENEDICTO provides any teaching or even a suggestion of navigation blocks, as recited in at least independent claim 1, nor any manipulation of such navigation blocks in accordance with the instant invention.

Because neither document teaches or suggests the above-noted features, Applicant submits that no proper combination of these documents can render unpatentable the combination of features recited in at least independent claim 1, as now amended.

Further, Applicant submits that claims 7 – 12 and 14 are allowable at least for the reason that these claims depend from allowable base claims and because these claims recite additional features that further define the present invention. In particular, Applicant submits that no proper combination of RASANEN in view of BENEDICTO teaches or suggests, *inter alia*, the modification message is inserted into the reserved data areas of the navigation data blocks within a pre-defined update time frame, as recited in claim 7; the status messages are composed of integrity messages concerning navigation satellites of a satellite navigation system, and the modification messages are provided when a modification of the integrity messages occurs, as recited in claim 8; the integrity messages are modified when integrity information changes, as recited in claim 9; the integrity messages are composed of information related to integrity of the transmitting navigation satellite or integrity of a selected group of navigation satellites of the satellite navigation system to which the transmitting navigation satellite belongs or integrity of all the navigation satellites of the satellite navigation system to which the transmitting navigation satellite belongs, as recited in claim 10; the integrity messages are further composed of information related to integrity of navigation satellites of other satellite navigation systems, as recited in claim 11; the integrity messages are composed of information related to integrity of navigation satellites of other satellite navigation systems, as recited in claim 12; and the inserting of the modification message into the navigation data blocks occurs within a defined alarm time of the satellite navigation system

or a fraction of a defined alarm time of the satellite navigation system, in which the alarm time is defined for status message broadcasts, as recited in claim 14.

Accordingly, Applicant requests that the Examiner reconsider and withdraw the rejection of claims 7 – 12 and 14 under 35 U.S.C. §103(a) and indicate that these claims are allowable.

Application is Allowable

Thus, Applicants respectfully submit that each and every pending claim of the present invention meets the requirements for patentability under 35 U.S.C. §§ 102 and 103, and respectfully request the Examiner to indicate allowance of each and every pending claim of the present invention.

Authorization to Charge Deposit Account

The undersigned authorizes the charging of any necessary fees, including any extensions of time fees required to place the application in condition for allowance by Examiner's Amendment, to Deposit Account No. 19 - 0089 in order to maintain pendency of this application.

CONCLUSION

In view of the foregoing, it is submitted that none of the references of record, either taken alone or in any proper combination thereof, anticipate or render obvious the Applicants' invention, as recited in each of claims 1 – 18. The claims have been amended to eliminate any arguable basis for rejection under 35 U.S.C. § 112. In addition, the applied references of record have been discussed and distinguished, while significant claimed features of the present invention have been pointed out.

Further, any amendments to the claims which have been made in this response and which have not been specifically noted to overcome a rejection based upon the prior art, should be considered to have been made for a purpose unrelated to patentability, and no estoppel should be deemed to attach thereto.

Accordingly, reconsideration of the outstanding Office Action and allowance of the present application and all the claims therein are respectfully requested and now believed to be appropriate.

Respectfully Submitted,
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